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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,261	12/28/2000	Rainer Lienhart	042390.P10325	1229
75	90 06/23/2006		EXAM	INER
Andre M. Gibbs Blakely, Sokoloff, Taylor & Zafman LLP			SENFI, BEHROOZ M	
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			2621	
Los Angeles, CA 90025-1030			DATE MAILED: 06/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/752,261	LIENHART, RAINER				
Office Action Summary	Examiner	Art Unit				
	Behrooz Senfi	2621				
The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING C - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	N. imely filed on the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 22 /	May 2006.					
<u> </u>	s action is non-final.					
,—	,					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,6 and 32-39</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6 and 32-39</u> is/are rejected.						
7) Claim(s) is/are objected to.) ☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail D	Pate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/22/2006 has been entered.

Response to Arguments

2. Applicant's arguments filed 5/22/2006 have been fully considered but they are not persuasive.

Response to remarks:

Applicant asserts (remarks; page 7, lines 2-4) that, nowhere do either Szeliski or Bozdagi teach or reasonably suggest a video data base of random samples of transition effects, and using the database to divide a video stream into sub-sections (claim 1).

Examiner respectfully disagrees; Szeliski (i.e. fig. 1, database 110, fig. 2, components 204, 206, and fig. 8, component 802; col. 12, lines 26 – col. 13, lines 55) discloses video database of random samples of transition effects, and using the database to divide a video stream into sub-sections.

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Claim Objections

3. Claims 36 - 39 are objected to because of the following: Examiner respectfully suggest that applicant should change the claim language of "a machine-readable medium having instructions which when executed, cause a machine to" to "a computer readable medium having computer instructions stored thereon which when executed by the computer, cause the computer to" to comply with the USPTO "Interim Guidelines for Examination of Patent Application for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1 3 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Szeliski et al (US 6,636,220).

Regarding claim 1, Szeliski '220 discloses, method of detecting transition comprising; creating a video data base that includes random samples of transition effects (i.e. fig. 1, database 110, fig. 2, components 200 – 206 and col. 12, lines 56 – 65) and acquiring a video stream (i.e. fig. 1, camera 192) and based on the random samples of transition effects in the video database, dividing the video stream into a

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plurality of sub-sections (i.e. col. 12, lines 56 – col. 13, lines 27) and determining a probability of whether the random samples of transition effects are present at one of the plurality of sub-sections of video stream, wherein the random samples of transition effects are of a specific number and specific type (i.e. col. 5, lines 7 – 35, where the potential acceptable transition is the type of transition to ensure a smooth appearance) and embedding the probability into the sub-section of the video stream (i.e. fig. 2, rendering module 208).

Regarding claim 2, Szeliski '220 discloses, wherein determining the probability is performed by a classifier (i.e. col. 3, lines 48 – 55, col. 15, lines 60 – col. 16, lines 45).

Regarding claim 3, Szeliski '220 discloses, wherein the classifier is provided a fixed sized portion of the sub-section (i.e. col. 9, lines 50 – 54).

Regarding claim 6, combination of Szeliski and Bozdagi teaches, transition effects comprises one or more of; a dissolve, a fade, a wipe, an iris, a funnel, a mosaic (Szeliski; fade-in and fade-out, col. 22, lines 39 – 45).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 4, 36 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Szeliski '220 in view of Bozdagi et al (US 6,493,042).

Regarding claim 4, Szeliski '220 teaches, detecting transition in video, creating a

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video data base that includes random samples of transition effects and acquiring a video stream, as discussed with respect to claim 1 above.

Szeliski '220 is silent in regards to, outputting a location of the one or more transition effects and duration of the one or more transition effects in the video.

Bozdagi '042 in the same field (i.e. col. 5, 19 - 55) teaches outputting a location of the one or more transition effects and duration of the one or more transition effects in the video.

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to implement such teaching, for the purpose of detecting the gradual changes in video images, as taught by Bozdagi '042 (i.e. col. 5, 19 - 55).

Regarding claim 36, Szeliski '220 teaches computer implemented system and process of generating video animation, as discussed with respect to claim 1 above.

Szeliski is silent in regards to explicitly point out, detecting transition points in the video stream, automatically generating segment annotations in the video stream at the detected transition points.

Bozdagi '042 in the same field (fig. 25, abstract, col. 1, lines 55 – col. 2, lines 26) teaches, detecting transition points in the video stream, automatically generating segment annotations in the video stream at the detected transition points.

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify Szeliski's system and process of generating video animation in accordance with the teaching of Bozdagi, by detecting Art Unit: 2621

transition points/boundaries (like; dissolves, wipes, fade and cuts) for the purpose of automatic annotation of digital video sequence, as suggested by Bozdagi (i.e. see; col. 1, lines 45 – 67).

Regarding claim 39, the limitations claimed have been analyzed and rejected with respect to claims 36 above.

8. Claims 32 - 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Szeliski '220 in view of Wilcox et al (US 6,072,542).

Regarding claim 32, the limitations claimed are a system corresponding to the method of detecting transitions in a video stream of claim 1, which have been analyzed and rejected with respect to claim 1 above. Furthermore, as for the additional limitation, transition synthesizer module (see, fig. 2, synthesizer 202, col. 12, lines 26 – 31 of Szeliski).

It is noted that, Szeliski is silent in regards to, the classifier module to be trained to identify the transition effect.

Wilcox in the same field (i.e. col. 4, lines 37 - 52, and col. 5, lines 20 - 45) teaches the classifier module to be trained for identifying the transition.

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to implement such teaching and modify system and process of generating video animation of Szeliski in an effort to precisely detect the changes/transition effect in a video stream, as suggested by Wilcox (col. 4, lines 37 - 52, and col. 5, lines 20 - 45).

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Regarding claims 33 – 34, combination of Szeliski and Wilcox teaches, transition synthesizer module generate the video sequence using random video shots from plurality of video stream, in claim 33 (Szeliski, fig. 1, 192 and fig. 2, synthesizer module) and transition effect is associated with the duration based on the probability distribution, in claim 34 (Wilcox, fig. 7).

Regarding claim 35, combination of Szeliski and Wilcox teaches, classifier module comprises re-scaling a time series of frame-based feature (i.e. Szeliski, col. 13, lines 15 – 27, analyzer "200" and synthesizer "202").

9. Claims 37 – 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Szeliski '220 in view of Bozdagi '042 and further in view of Wilcox '542.

Regarding claim 37, combination of Szeliski and Bozdagi teaches, detecting transition in video (like; dissolves, wipes, fade and cuts), creating a video data base that includes random samples of transition effects and acquiring a video stream, as discussed with respect to claims 1 and 36 above.

Combination of Szeliski and Bozdagi is silent to explicitly mention, transition effects include a portion of the first shot and a portion of the second shot.

Wilcox in the same field (i.e. col. 3, lines 25 – 45) teaches transition effects including shots.

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to implement such teachings in an effort to precisely detect and distinguish the changes in a video stream, as suggested by Wilcox (col. 2, lines 35 - 43).

Regarding claim 38, combination of Szeliski, Bozdagi and Wilcox teaches, wherein the video transition sequence includes a portion of the first shot before the transition effect, the one or more transition effects, and a portion of the second shot after the one or more transition effects, reads in the fact that, Wilcox teaches "segment including shots and shot includes multiple frames" therefore the presence of a transition would be between two frames, in which one would be before the transition take place and the other one would be after the transition.

Contact

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Behrooz Senfi** whose telephone number is **(571) 272-7339.**

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Mehrdad Dastouri** can be reached on **(571) 272-7418.**

Hand-delivered responses should be brought to Randolph Building, 401 Dulany Street, Alexandria, Va. 22314.

Any inquiry of a general nature or relative to the status of the application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (571) 272-6000,

Or faxed to:

(571) 273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

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applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B.M.S.

MEHRDAD DASTOURI
SUPERVISORY PATENT EXAMINER

TC 2600